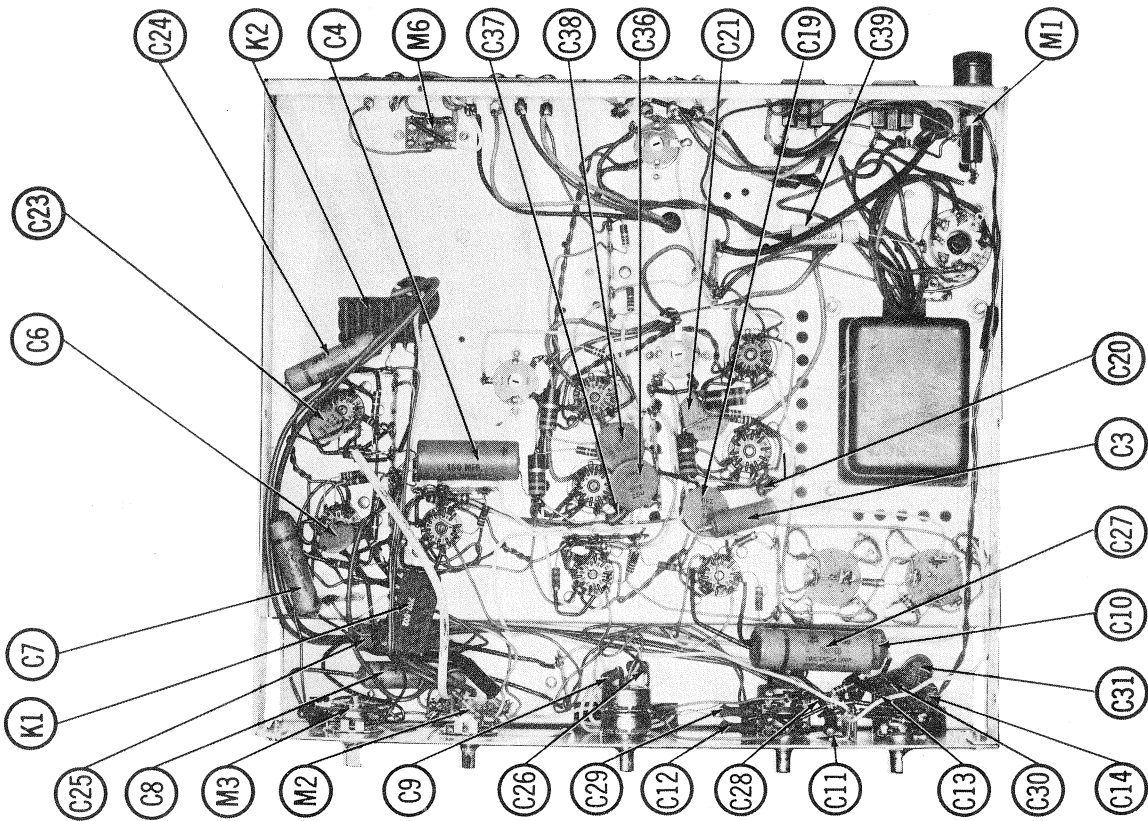
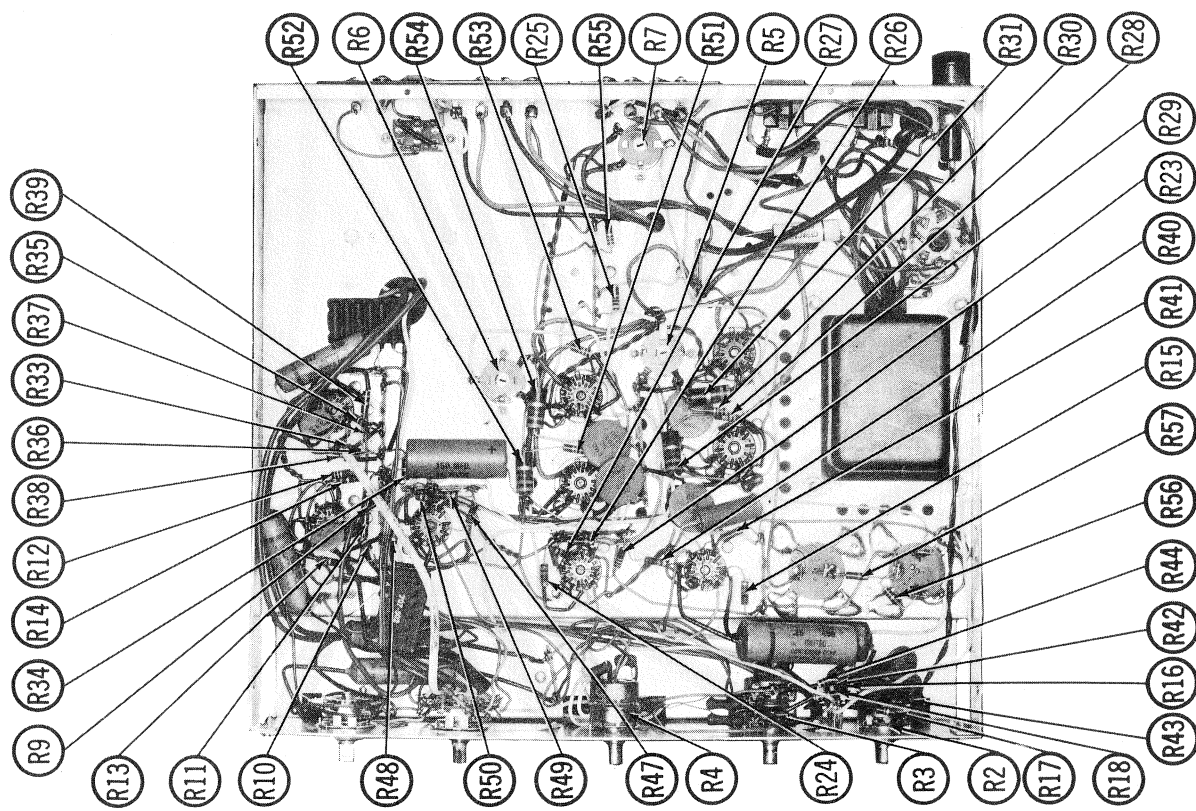


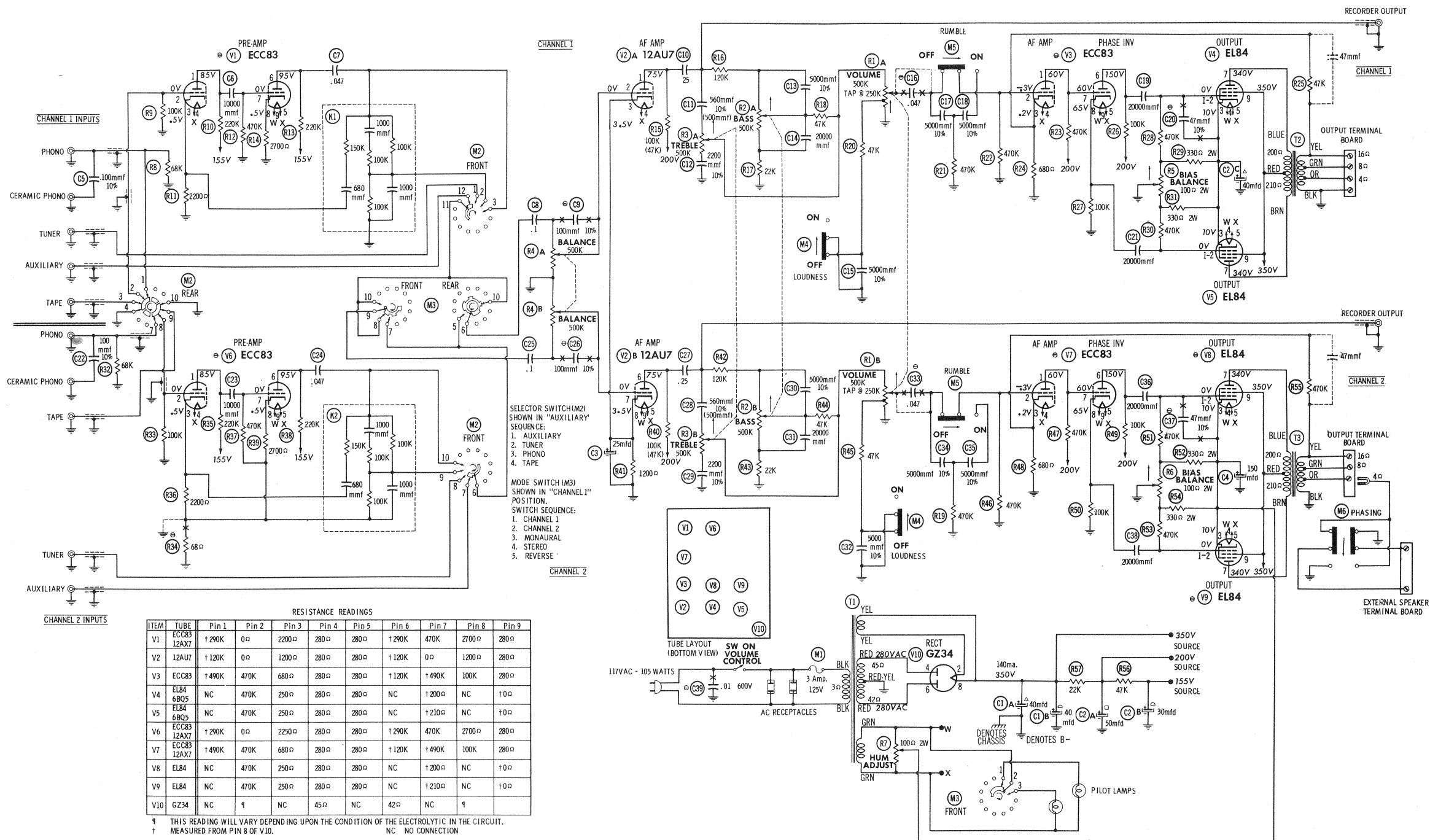
DATE 12-60



CHASSIS BOTTOM VIEW -
CAPACITOR & MISC. IDENT.



CHASSIS BOTTOM VIEW - RESISTOR IDENT.



1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

PARTS LIST AND DESCRIPTIONS

TUBES

GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Channel 1 Preamp.	ECC83/12AX7 (7025) *	V6	Channel 2 Preamp.	ECC83/12AX7 (7025) *			
V2	Channel 1 AF Amp. -	12AU7	V7	Channel 2 AF Amp. -	ECC83/12AX7 (7025) *			
V3	Channel 2 AF Amp. -		V8	Phase Inv.	EL84 (6BQ5) *			
V4	Channel 1 AF Amp. -	ECC83 (ECC83/7025) *	V9	Channel 2 Output	EL84 (6BQ5) *			
V5	Phase Inv.	EL84/6BQ5	V10	Channel 2 Output	GZ34			
	Channel 1 Output			Rectifier				
	Channel 1 Output							

* Alternate

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	Channel Master PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES
C1A	▲ 40	450	A500	AFH2-57	B0450	FP238	TMD-2650	TVL-2764	
B	▲ 40	450							
C2A	■ 50	400	A502	AFH3-134	C1080	FP369.1	TMT-3628	TVL-3725.6	
B	■ 30	450							
C	▲ 40	25							
C3	25	3	A501	SRE3V25	BBR25-3	TT3X25	TD-25-25	TE-1055	
C4	150	15	A503	PRSL370	BR1505	TC25015	TD-150-50	TE-1163	

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING		REMARKS	REPLACEMENT DATA						
	CAP.	VOLT.		AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENC0 PART No.	MALLORY PART No.	SPRAGUE PART No.	
C5	100	10%		NPO-SI 100	D6-101	L10T1	CCD-101	GP310	10TS-T10	
C6	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C7	.047	400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47	
C8	.1	200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10	
C9	100	10%	Note 1	NPO-SI 100	D6-101	L10T1	CCD-101	GP310	10TS-T10	
C10	.25	400V		P488N-25		CUB4P25	4DP-5-254	GEM-4025	4TM-P25	
C11	560	10%	(500) †		D6-561	5R5T56	CCD-561	GP356	10TS-T56	
C12	2200	10%				PM6D22	CCD-222	GP222	10TS-D22	
C13	5000	10%				PM6D5	CCD-502	JL-247	10TS-D50	
C14	20000			DI-5000		BYB6S2	CCD-203	B-120	5HK-S20	
C15	5000	10%		BPD-02	DD-203	PM6D5	CCD-502	JL-247	10TS-D50	
C16	.047	200V	Note 1	DI-5000		CUB4S47	4DP-3-473	GEM-4147	2TM-S47	
C17	5000	10%		P288N-047	DD-503	PM6D5	CCD-502	JL-247	10TS-D50	
C18	5000	10%		DI-5000		PM6D5	CCD-502	JL-247	10TS-D50	
C19	20000			BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20	
C20	47	10%	Note 1	NPO-SI 470	D6-470	L10Q47	CCD-470	GP447	10TS-Q47	

FIXED CAPACITORS (cont)

ITEM No.	RATING		REMARKS	REPLACEMENT DATA					
				AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENC0 PART No.	MALLORY PART No.	SPRAGUE PART No.
C21	20000			NPO-SI 100	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C22	100	10%		BPD-01	D6-101	L10T1	CCD-101	GP310	10TS-T10
C23	10000			P488N-047	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C24	.047	400V		P288N-1	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C25	.1	200V		P488N-25	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C26	100	10%	Note 1	NPO-SI 100	D6-101	L10T1	CCD-101	GP310	10TS-T10
C27	.25	400V		P488N-25		CUB4P25	4DP-5-254	GEM-4025	4TM-P25
C28	560	10%	(500) †	DI-5000	DD-561	5R5T56	CCD-561	GP356	10TS-T56
C29	2200	10%		BPD-02		PM6D22	CCD-222	GP222	10TS-D22
C30	5000	10%		DI-5000		PM6D5	CCD-502	JL-247	10TS-D50
C31	20000			BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C32	5000	10%		DI-5000		PM6D5	CCD-502	JL-247	10TS-D50
C33	.047	200V	Note 1	P288N-047	DD-503	CUB2S47	4DP-3-473	GEM-4147	2TM-S47
C34	5000	10%		DI-5000		PM6D5	CCD-502	JL-247	10TS-D50
C35	5000	10%		DI-5000		PM6D5	CCD-502	JL-247	10TS-D50
C36	20000			BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C37	47	10%	Note 1	NPO-SI 47	D6-470	L10Q47	CCD-470	GP447	10TS-Q47
C38	20000			BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C39	.01	600V	Note 1	P888N-01	D6-103	CUB6S1	GDP-2-103	GEM-611	6TM-S10

Note 1. Not used in some versions.

† Alternate Value.

CONTROLS

ITEM No.	RATING		Channel Master PART No.	REPLACEMENT DATA				INSTALLATION NOTES
	RESIST-ANCE	WATTS		CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
RIA	500K	1/2	E-502	BT-64				Volume, Channel 1
B	250K Tap	1/2		STR-64				Volume, Channel 2
C	500K			KR-1				Power Off-On
R2A	500K		E-500	B-58	AD47-500K-Z		FA55A	Bass, Channel 1
B	500K			SR-58	Not Req.		RU55A	Bass, Channel 2
C	500K			Not Req.	FS-3		CS3500	
R3A	500K		E-500	B-58	AD47-500K-Z		FA55A	Treble, Channel 1
B	500K			SR-58	Not Req.		RU55A	Treble, Channel 2
C	500K			Not Req.	FS-3		CS3500	
R4A	500K		E-501	B-59	AD47-500K-S		FA55L	Balance, Channel 1
B	500K			SR-59	Not Req.		RU55L	Balance, Channel 2
C	500K			Not Req.	FS-3		CS3500	
R5A	100Ω	2(WW)	E-503	WN-101	A43-100	W11-084	R100L	Bias Balance, Channel 1
B	100Ω			Not Req.	FKS-1/4	SK5	Not Req.	
R6A	100Ω	2(WW)	E-503	WN-101	A43-100	W11-084	R100L	Bias Balance, Channel 2
B	100Ω			Not Req.	FKS-1/4	SK5	Not Req.	
R7A	100Ω	2(WW)	E-503	WN-101	A43-100	W11-084	R100L	Hum Adjust
B	100Ω			Not Req.	FKS-1/4	SK5	Not Req.	

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS (IRC or EQUIVALENT)

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R8	68K		R25	47K		R42	120K	
R9	100K		R26	100K		R43	22K	
R10	220K		R27	100K		R44	47K	
R11	2200Ω		R28	470K		R45	47K	
R12	470K		R29	330Ω 2W		R46	470K	
R13	220K		R30	470K		R47	470K	
R14	2700Ω		R31	330Ω 2W		R48	680Ω	
R15	100K	(47K) *	R32	68K		R49	100K	
R16	120K		R33	100K		R50	100K	
R17	22K		R34	68Ω	Note 1	R51	470K	
R18	47K		R35	220K		R52	330Ω 2W	
R19	470K		R36	2200Ω		R53	470K	
R20	47K		R37	470K		R54	330Ω 2W	
R21	470K		R38	220K		R55	47K	
R22	470K		R39	2700Ω		R56	47K	
R23	470K		R40	100K	(47K) *	R57	22K	
R24	680Ω		R41	1200Ω				

* Alternate Value

Note 1. Not used in some versions.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			Channel Master PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG	3A 125V S/B	F504	F505	313003 (3AG 3A 125V S/B)	342001	MDX3	HKP

MISCELLANEOUS

ITEM No.	PART NAME	Channel Master PART No.	NOTES
M2	Switch	E504	Selector (Rotary Wafer)
M3	Switch	E505	Channel Selector (Rotary Wafer)
M4	Switch	E507	Loudness (DPST Slide Type)
M5	Switch	E506	Rumble (DPDT Slide Type)
M6	Switch	E506	Phasing (DPDT Slide Type)

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	Channel Master PART No.	REPLACEMENT DATA
K1	Preamp. Plate Coupling	680mmf, 1000mmf, 1000mmf, 100K, 100K, 100K, 150K	F517	
K2	Preamp. Plate Coupling	680mmf, 1000mmf, 1000mmf, 100K, 100K, 100K, 150K	F517	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
				Channel Master PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
	PRI.	SEC. 1	SEC. 2						
T1	117V ⓐ .95A	560VCT ⓐ .140A	5V ⓐ 1.9A	C500					
	SEC. 3	SEC. 4	SEC. 5						
	6.3V ⓐ 4.7A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	Channel Master PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	5200Ω CT	16Ω Tap @ 8Ω, 4Ω	C501					
T3	5200Ω CT	16Ω Tap @ 8Ω, 4Ω	C501					

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord Use BELDEN No. 8524 (Stranded) Available in Ten Colors
1725-B (6 Ft. Length)
1725-K (7½ Ft. Length)

PILOT: TS 51